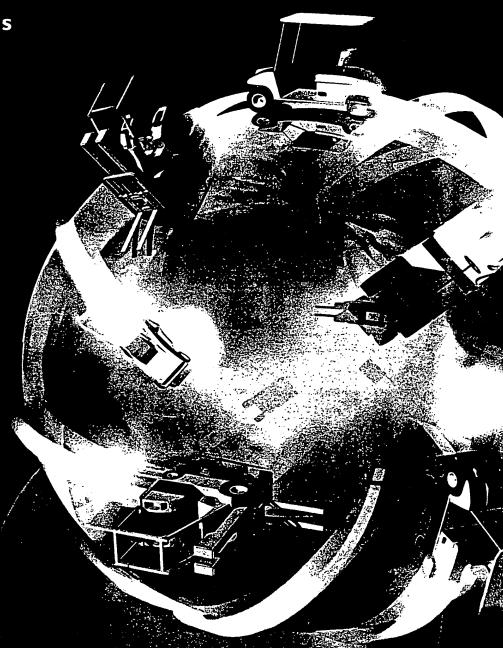
The Changing World of Industrial and Specialty Electric Vehicles



The Second Annual Conference

Jugust 18-20, 1999

The Hilton Hotel at

Walt Disney World Village

Lake Buena Vista, Florida

Exhibit I

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### THE CHANGING WORLD OF INDUSTRIAL AND SPECIALTY ELECTRIC VEHICLES

The Second Annual Conference

August 18-20, 1999

The Hilton Hotel at Walt Disney World Village

Lake Buena Vista, Florida

#### THE CHANGING WORLD OF INDUSTRIAL AND SPECIALTY ELECTRIC VEHICLES

| DAY 1 | - Thursday, | August 19, 1999 |
|-------|-------------|-----------------|
|       |             |                 |

Located in Exhibit Hall

| DAY 1- | - Thursday, August 19, 1999  |                     |   |
|--------|--|---------------------|---|
| 7:00   | Continental Breakfast & Registration   |                     |   |
| 7:45   | Welcome  | Conference Chairman | Gloria Krein, EPRI<br>Bob Hawkins, Alabama Power<br>(SoCo)  |
| 8:00   | Keynote Speaker Emerging Business Opportunities in the New Millennium  |                     | C.D. "Rapp" Rappleyea,<br>Chairman & CEO<br>New York Power Authority  |
| 9:00   | Regulatory & Incentives Update The National Perspective The California Perspective Los Angeles Basin Incentive Program   | Moderator           | Coleen Tessema, SCE Kateri Callahan, EVAA Scott Rowland, CARB Michael Bogdanoff, SCAQMD   |
| 10:30  | Break  |                     |   |
| 11:00  | Lift Truck Session  Material Handling Distributors  Manufacturer's Perspective  Manufacturer: New Technologies   | Moderator           | Don Caridas, AEP Liz Richards, MHEDA Tom Hoying, Crown Chris Goode, Clark   |
| 12:30  | Luncheon/Exhibits Located in Exhibit Hall  |                     |   |
| 2:00   | Bridging Automotive Research Automotive Controllers Solid State Devices Motors & Generators  | Moderator           | Bud Clark, C&SW Allan Gale, Ford Motor Company Fred Flett, International Rectifier Patrick J. McCleer, McCleer Power                  |
| 3:00   | Break  |                     |   |
| 3:15   | Batteries/Opportunity Charging   | Moderator           | Bob Bellenger, Alabama Power (SoCo)   |
|        | Battery Update: Ovonic Battery Update: Yuasa Battery Life Testing 1998 Opportunity Charging Demo Projects Infrastructure Issues The Business Case for Fast Charging: Perspective | s                   | Greg Fritz Karyl McKnight Naum Pinsky, SCE Gloria Krein, EPRI Ernie Morales, SCE Jay Gill, AeroVironment Stephen Schey, Edison Source |
| 5:30   | Reception  |                     |   |

#### DAY 2 - August 20, 1999

| 7:00  | Continental Breakfast  | ·                   | ·  |
|-------|--|---------------------|--|
| 7:45  | Welcome  | Conference Chairman | Bob Hawkins, Alabama Power (SoCo)  |
| 8:00  | Utility Vehicles, Neighborhood Vehicles and<br>City Cars<br>Utility Vehicles                           | Moderator           | Kerry-Jane King, NYPA  Karl Thidemann, Solectria B. Samara, Taylor-Dunn Barry Cook, E-Z-GO                                   |
|       | Neighborhood Vehicles City Cars  | *                   | Graham Hill, Global Elec. MotorCars Bryan Taylor, Bombardier James Geer, Ford Motor Company                                  |
| 10:30 | Break  |                     |  |
| 11:00 | Outdoor Power Equipment Production Use of Automated Guided Vehicles in Manufacturing Outdoor Equipment | Moderator           | Jerry Lonergan, KEURP Larry Toraason, John Deere Mark Gebhardt, CORECON Engineered Solutions                                 |
| 11:30 | Scrubbers & Sweepers Commercial & Industrial Marketplace   | Moderator           | DeJim Lowe, TVA Mark Fleigle, Tennant Company  |
| 12:00 | Luncheon/Exhibits Located in Exhibit Hall  |                     | ·  |
| 1:00  | Propulsion Systems Applications to Non-Road Equipment  | Moderator           | Sal Termini, CSW Total EV Kevin Barnes, Unique Mobility  |
| 1:30  | Airports: Improved Technologies John Wayne Airport United Airlines                                     | Moderator           | Layla Sandell, EPRI Scotty Stewart Ralph Timan   |
| 2:30  | Break  |                     |  |
| 2:45  | Marketing Transfer Green Pricing and the Non-Road Market   | Moderator           | Alex Hapka, Kansas City P&L Terry Peterson, EPRI   |
| 3:15  | Bicycles & Portable EVs Bicycles Bicycles/Police Departments Successful Promotions                     | Moderator           | Tonya Shadduck, CSW Total EV<br>Richard Allen, EV Global East<br>Kevin Moran, Smith & Wesson<br>Tonya Shadduck, CSW Total EV |
| 4:15  | Drawing/Adjournment  |                     | Eric Heim, EPRI Bob Hawkins, Alabama Power (SoCo)  |

#### KEVIN A. BARNES UNIQUE MOBILITY, INC.

Kevin A. Barnes is the Manager of Product Sales at Unique Mobility, Inc. and is responsible for product and engineering services sales. Mr. Barnes also coordinates many of Unique's new business and product development programs.

While working for Unique, Mr. Barnes has been involved with many electric and hybrid/electric vehicle applications ranging from bicycles, scooters and wheelchairs to commuter cars and transit busses. Kevin joined Unique in 1988 where he was responsible for product development testing and pioneered Unique's involvement in solar racing and university electric and hybrid/electric vehicle competitions.

Mr. Barnes is a graduate of the Colorado School of Mines and holds a B.S. degree in power electronics and controls with a minor in alternative energy.

Unique Mobility, Inc.

### Driving the World Electric Power with

## Company Profile



Corporate Headquarters, Golden CO

Developer and manufacturer of

- > brushless PIM motors,
- electronic controls and
- > precision gear sets

for automotive, industrial and aerospace applications

FY 1999 Sales: \$15.8 million

Total assets: \$27.2 million

Employees: 190

American (AMEX:UQM), Berlin, Boston, Exchanges:

Chicago, Frankfurt and Pacific



# Corporate Structure



EUROPE

Unique Mobility, Inc.

ASIA

Golden, Colorado

Product development

Unique Mobility Europa GmbH

Mittwieda, Germany JV & Licensee

Taiwan UQM Electric Co., Ltd.

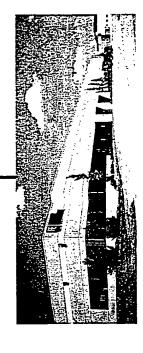
Tao-Yuan, Taiwan ROC

JV & Licensee



Unique Power Products, Inc.

Frederick, Colorado Motor & gear manufacturing



Franklin Manufacturing Company

St. Charles, Missouri Electronics manufacturing

### Mission

Build on Unique's technology base to

become a leading provider of advanced

vehicle power systems for energy

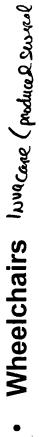
efficient, environmentally clean

transportation throughout the world.



#### 6100 V 230 KW

# Low Power Vehicles Existing Markets



Thousand motors

**Golf carts** 

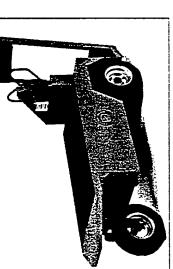
Floor

maintenance/sweepers

Warehouse/utility vehicles

Fork trucks

Automated guide vehicles



**Commodity propulsion** 

systems

Today

Lead-acid batteries

**Brush motors** 

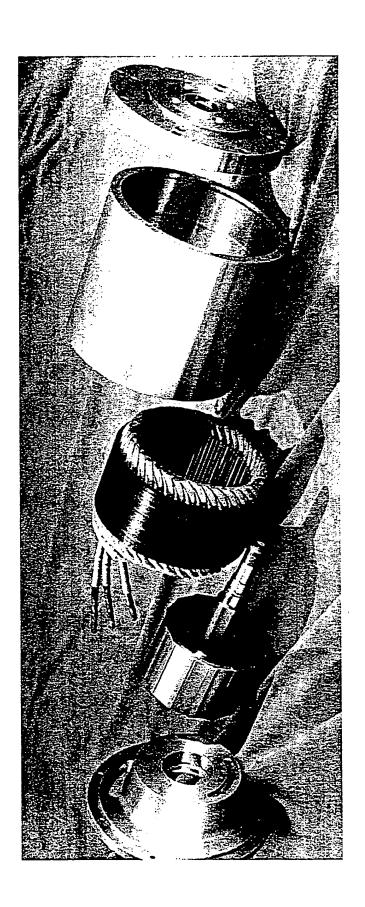
### Tomorrow

### Differentiation

- Efficiency/range
- Performance
- Regenerative braking

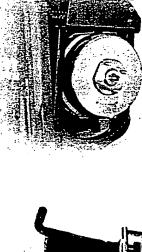


# 10 HP Traction Motor



#### 

## UQM® Gearless Brushless (GB™) Wheelchair Motor







Invacare Storm wheelchair



power chair

motor

**Traditional** 

### 

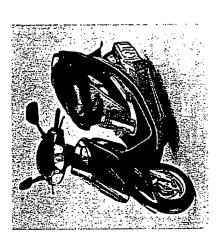
### Low Power Vehicles **Emerging Markets**

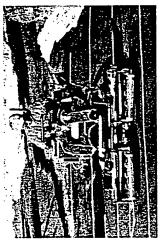


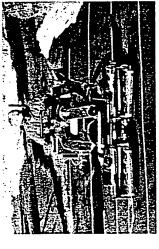




- Power density
- **Efficiency**
- **Performance**







Neighborhood electric

vehicles

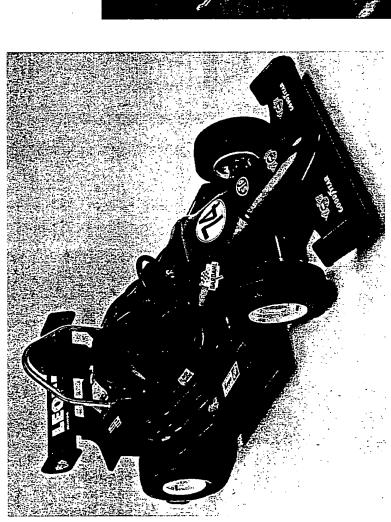
Lawn care products

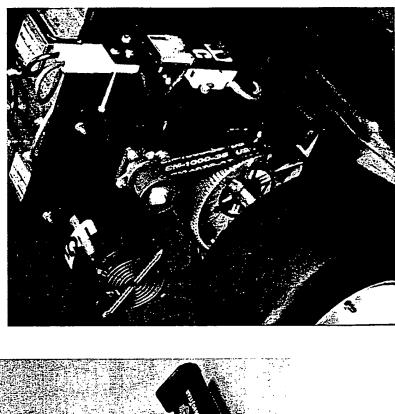
Motor scooters

Go carts

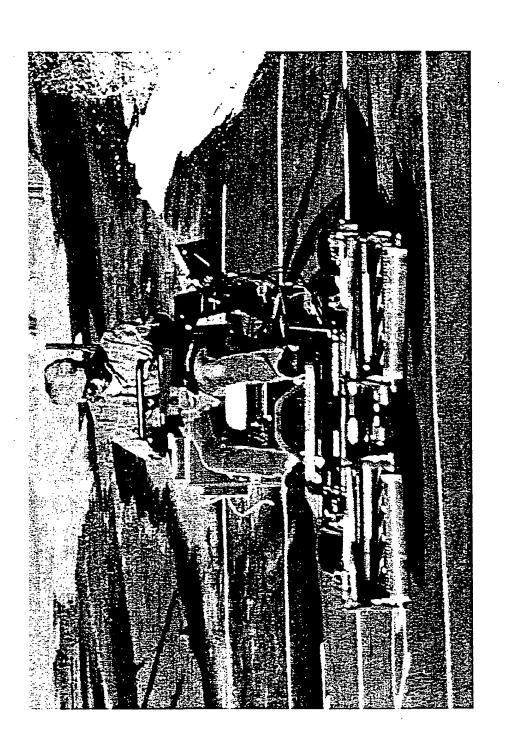
**Bicycles** 

### **Go Cart**

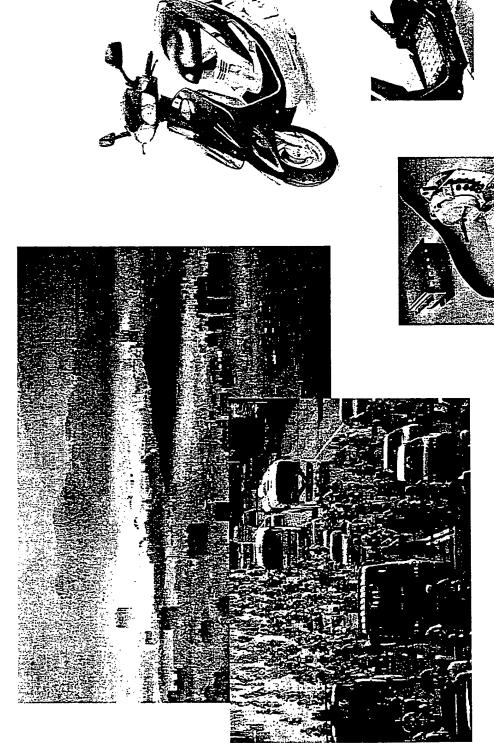




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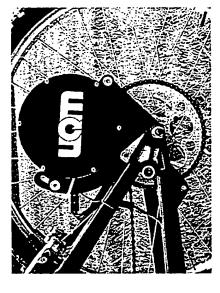
# Electric Scooter Drive System

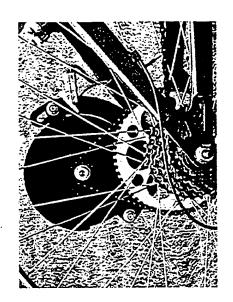


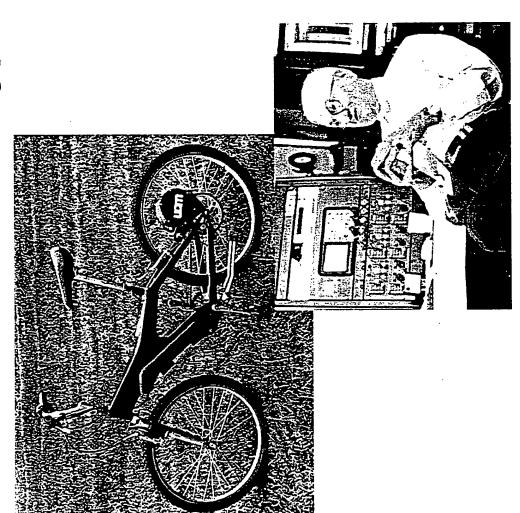




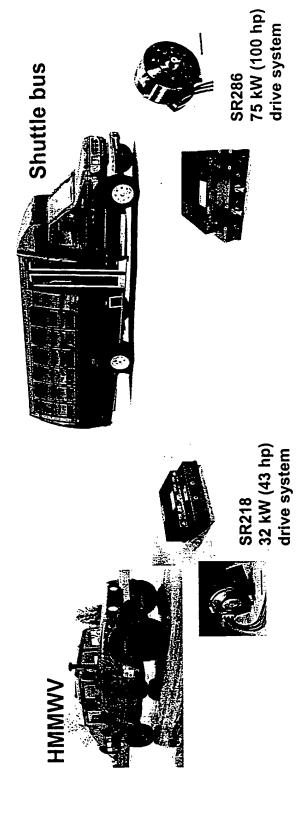
# **EVG Prototype Bike**





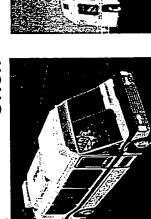


# High Power Hybrid Electric Vehicles



Orion A

Military



ATTB



Mining

Construction

Agricultural

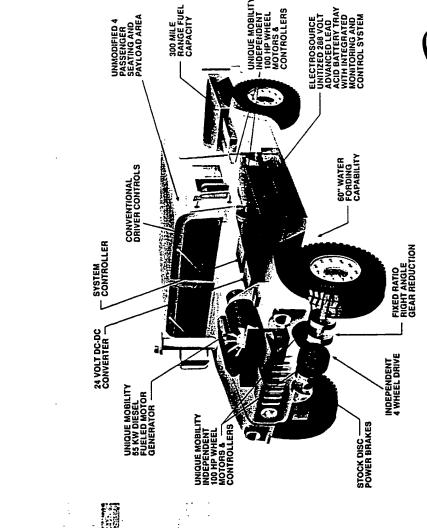
Truck

Bus

### 

HYBRID ELECTRIC HMMWV

### **AMMMH**





### 

# Strategy for Growth

Aggressive product commercialization with large-scale manufacturing capability 型

Strategic partnerships to access key markets

■ Maintain a technology lead

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